



IP PARIS



## LMS Seminar series 2024 – 25

### Programming shape-shifting materials

**Speaker:** Benoit Roman, ESPCI Paris

**Date:** October 17, 2024

**Venue:** Amphi 104 (Pole Meca)

#### Abstract

I will discuss several experiments where we aim at producing a change of shape in a material (or structure), by inducing internal incompatibilities, not through external load. Such self-shaping process, often termed “morphing”, benefits from the development of digital fabrication, and raises interesting questions in Mechanics.

#### About the speaker

B.Roman is a CNRS senior researcher in PMMH, a lab hosted by ESPCI-PSL in Paris. As an experimentalist, he is working on the non-linear mechanics of slender structures: fracture, instabilities, and actuation